

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/590, 136
Source: IFWP
Date Processed by STIC: 08/30/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 08/30/2006

PATENT APPLICATION: US/10/590,136

TIME: 09:15:37

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08302006\J590136.raw

```

3 <110> APPLICANT: Bloom, David C.
4   Amelio, Antonio L.
6 <120> TITLE OF INVENTION: INSULATED HERPESVIRUS-DERIVED GENE EXPRESSION CASSETTES FOR
7   SUSTAINED AND REGULATABLE GENE EXPRESSION
9 <130> FILE REFERENCE: 36689.259
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/590,136
12 <141> CURRENT FILING DATE: 2006-08-17
14 <150> PRIOR APPLICATION NUMBER: PCT/US05/05461
15 <151> PRIOR FILING DATE: 2005-02-17
17 <150> PRIOR APPLICATION NUMBER: 60/545,375
18 <151> PRIOR FILING DATE: 2004-02-17
20 <160> NUMBER OF SEQ ID NOS: 111
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 21
26 <212> TYPE: DNA
27 <213> ORGANISM: Herpes simplex virus
29 <400> SEQUENCE: 1
30 tgaacccag cccagaaac c                                     21
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 22
35 <212> TYPE: DNA
36 <213> ORGANISM: Herpes simplex virus
38 <400> SEQUENCE: 2
39 cgagtaaacc atgttaagga cc                                   22
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 24
44 <212> TYPE: DNA
45 <213> ORGANISM: Herpes simplex virus
47 <400> SEQUENCE: 3
48 ctgatcacgc ggctgctgta cacc                                24
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 24
53 <212> TYPE: DNA
54 <213> ORGANISM: Herpes simplex virus
56 <400> SEQUENCE: 4
57 ggtgatgaag gagctgctgt tgcg                                24
60 <210> SEQ ID NO: 5
61 <211> LENGTH: 19
62 <212> TYPE: DNA
63 <213> ORGANISM: Herpes simplex virus
65 <400> SEQUENCE: 5
66 catcaccgac ccggagagc                                     19

```

RAW SEQUENCE LISTING

DATE: 08/30/2006

PATENT APPLICATION: US/10/590,136

TIME: 09:15:37

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08302006\J590136.raw

```

69 <210> SEQ ID NO: 6
70 <211> LENGTH: 22
71 <212> TYPE: DNA
72 <213> ORGANISM: Herpes simplex virus
74 <400> SEQUENCE: 6
75 gggccaggcg cttgttggtg ta                22
78 <210> SEQ ID NO: 7
79 <211> LENGTH: 20
80 <212> TYPE: DNA
81 <213> ORGANISM: Oryctolagus cuniculus
83 <400> SEQUENCE: 7
84 aagatctggc accacacctt                20
87 <210> SEQ ID NO: 8
88 <211> LENGTH: 20
89 <212> TYPE: DNA
90 <213> ORGANISM: Oryctolagus cuniculus
92 <400> SEQUENCE: 8
93 cgaacatgat ctgggtcatc                20
96 <210> SEQ ID NO: 9
97 <211> LENGTH: 20
98 <212> TYPE: DNA
99 <213> ORGANISM: Mus musculus
101 <400> SEQUENCE: 9
102 ggagcctaaa cctgtctgtc                20
105 <210> SEQ ID NO: 10
106 <211> LENGTH: 20
107 <212> TYPE: DNA
108 <213> ORGANISM: Mus musculus
110 <400> SEQUENCE: 10
111 gtgtgtcata gctcaagagg                20
114 <210> SEQ ID NO: 11
115 <211> LENGTH: 26
116 <212> TYPE: DNA
117 <213> ORGANISM: Mus musculus
119 <400> SEQUENCE: 11
120 actcagtcca aacatataca agatgc                26
123 <210> SEQ ID NO: 12
124 <211> LENGTH: 25
125 <212> TYPE: DNA
126 <213> ORGANISM: Mus musculus
128 <400> SEQUENCE: 12
129 ctatctacaa caaacttctc ctggg                25
132 <210> SEQ ID NO: 13
133 <211> LENGTH: 16
134 <212> TYPE: DNA
135 <213> ORGANISM: Herpes simplex virus
137 <400> SEQUENCE: 13
138 gcatgcgtcg cccaac                16
141 <210> SEQ ID NO: 14

```

RAW SEQUENCE LISTING

DATE: 08/30/2006

PATENT APPLICATION: US/10/590,136

TIME: 09:15:37

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08302006\J590136.raw

```

142 <211> LENGTH: 20
143 <212> TYPE: DNA
144 <213> ORGANISM: Herpes simplex virus
146 <400> SEQUENCE: 14
147 cagtttagatt gcatgtgatc 20
150 <210> SEQ ID NO: 15
151 <211> LENGTH: 20
152 <212> TYPE: DNA
153 <213> ORGANISM: Herpes simplex virus
155 <400> SEQUENCE: 15
156 ctctgtgggtt aacaccagag 20
159 <210> SEQ ID NO: 16
160 <211> LENGTH: 20
161 <212> TYPE: DNA
162 <213> ORGANISM: Herpes simplex virus
164 <400> SEQUENCE: 16
165 gtctgtcttg gatgtatcgc 20
168 <210> SEQ ID NO: 17
169 <211> LENGTH: 17
170 <212> TYPE: DNA
171 <213> ORGANISM: Herpes simplex virus
173 <400> SEQUENCE: 17
174 caacgctact gcaaaac 17
177 <210> SEQ ID NO: 18
178 <211> LENGTH: 16
179 <212> TYPE: DNA
180 <213> ORGANISM: Herpes simplex virus
182 <400> SEQUENCE: 18
183 gacgggggtgc tgtaac 16
186 <210> SEQ ID NO: 19
187 <211> LENGTH: 17
188 <212> TYPE: DNA
189 <213> ORGANISM: Herpes simplex virus
191 <400> SEQUENCE: 19
192 cacgaacgac gggagcg 17
195 <210> SEQ ID NO: 20
196 <211> LENGTH: 17
197 <212> TYPE: DNA
198 <213> ORGANISM: Herpes simplex virus
200 <400> SEQUENCE: 20
201 caccgaaggt gcttacc 17
204 <210> SEQ ID NO: 21
205 <211> LENGTH: 17
206 <212> TYPE: DNA
207 <213> ORGANISM: Herpes simplex virus
209 <400> SEQUENCE: 21
210 cgtgatcgcc tgtctcc 17
213 <210> SEQ ID NO: 22
214 <211> LENGTH: 17

```

RAW SEQUENCE LISTING

DATE: 08/30/2006

PATENT APPLICATION: US/10/590,136

TIME: 09:15:37

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08302006\J590136.raw

```

215 <212> TYPE: DNA
216 <213> ORGANISM: Herpes simplex virus
218 <400> SEQUENCE: 22
219 cattgccaat cgaaccc 17
222 <210> SEQ ID NO: 23
223 <211> LENGTH: 20
224 <212> TYPE: DNA
225 <213> ORGANISM: Herpes simplex virus
227 <400> SEQUENCE: 23
228 ccttgccgtg gtcctgtgga 20
231 <210> SEQ ID NO: 24
232 <211> LENGTH: 20
233 <212> TYPE: DNA
234 <213> ORGANISM: Herpes simplex virus
236 <400> SEQUENCE: 24
237 gttgggggttt ggggtcgatg 20
240 <210> SEQ ID NO: 25
241 <211> LENGTH: 11
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic oligonucleotide
248 <400> SEQUENCE: 25
249 acgcaccccc a 11
252 <210> SEQ ID NO: 26
253 <211> LENGTH: 208
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Synthetic oligonucleotide
260 <400> SEQUENCE: 26
261 taactggctc cctctcccc cctctccct ctccccctc tccccctcc cccctctcc 60
263 cctctcccc cctctccct ctccccctc ctccccctc cccctctc cctctcccc 120
265 cctctcccc tctccccct tctccccct cccccctct cccctctcc cccctctcc 180
267 ctctccccct ctctccccct tctctctt 208
270 <210> SEQ ID NO: 27
271 <211> LENGTH: 205
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Synthetic oligonucleotide
278 <400> SEQUENCE: 27
279 ctctgtggtt aacaccagag cctgccaac ataggcccc cactccacg cccccact 60
281 cccacgcacc cccactccca cgcaccccca ctccacgca cccactcc cagcaccac 120
283 cactccacg cccccact cccacgcacc cccactccca cgcaccccca ctccacgca 180
285 tccccgcgat acatccaaca cagac 205
288 <210> SEQ ID NO: 28
289 <211> LENGTH: 239
290 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 08/30/2006

PATENT APPLICATION: US/10/590,136

TIME: 09:15:37

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08302006\J590136.raw

```

291 <213> ORGANISM: Artificial
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Synthetic oligonucleotide
296 <400> SEQUENCE: 28
297 cggcgtcttg cgcctctctc ccccgctcct cccccgcgc ctcctccgcg tctctcccc 60
299 gctcctcccc cgcctctctc ccccgctcct cccccgcgc ctcctccgcg tctctcccc 120
301 ctctctcccc cgcctctctc ccccgctcct cccccgcgc tctctccgcg cctctcccc 180
303 ctctctcccc cgcctctctc ccccgctcct cccccgcgc tctctccgcg cccgcggcc 239
306 <210> SEQ ID NO: 29
307 <211> LENGTH: 581
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Synthetic oligonucleotide
314 <400> SEQUENCE: 29
315 caccaccgcc cctctccag cccagccct cccagcccc agcctcccc ggccccagcc 60
317 ctccccggcc ccagccctc cggccccag cctccccgg cccagccct ccccgcccc 120
319 agcctcccc ggccccagcc ctccccggcg cgtcccgcg tccctcgggg ggggtcgggc 180
321 atctctacct cagtgcgcgc aatctcaggt cagagatcca aacctccgg gggcgccgc 240
323 gcaccaccac cgcctctgc cccctccgc cctcgcccc ctcccgcccc tcgccccctc 300
325 ccgccccctg cccctcccg cccctcgccc cctcccgccc ctgccccct cccgccccctc 360
327 gccccctccc gccccctgccc cctcccgccc cctgcccccc tccgccccct cgcccccctc 420
329 cgccccctgc cccctccgc cctcgcccc ctcccgcccc tcgccccctc ccgccccctg 480
331 cccctcccg cccctcgccc cctccgcccc ctgccccct cccgccccctc gccccctccc 540
333 gccccctgccc cctcccgccc cctgcccccc tccgccccct c
581
336 <210> SEQ ID NO: 30
337 <211> LENGTH: 115
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Synthetic oligonucleotide
344 <400> SEQUENCE: 30
345 ctccccccct ggcccccgc cctctcccc ctgcccccc gctctctccc cctgcccc 60
347 ccgctctctc cccctgcccc cccgctctct cccctgccc ccccgctctc ctccc 115
350 <210> SEQ ID NO: 31
351 <211> LENGTH: 140
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Synthetic oligonucleotide
358 <400> SEQUENCE: 31
359 cctcaccaca cccaccctc accacccac cctcaccaca cccaccctc accacccac 60
361 cctcaccaca cccaccctc accacccac cctcaccaca cccaccctc accacccac 120
363 cctcaccaca cccaccctc
140
366 <210> SEQ ID NO: 32
367 <211> LENGTH: 12
368 <212> TYPE: DNA
369 <213> ORGANISM: Herpes simplex virus
371 <400> SEQUENCE: 32

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/590,136

DATE: 08/30/2006
TIME: 09:15:38

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\08302006\J590136.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:25,26,27,28,29,30,31

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/590,136

DATE: 08/30/2006

TIME: 09:15:38

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08302006\J590136.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number